

CLIPPEDIMAGE= JP356131221A

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TITLE: PIEZOELECTRIC TORSIONAL OSCILLATION TRANSDUCER

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INVENTOR-INFORMATION:

NAME

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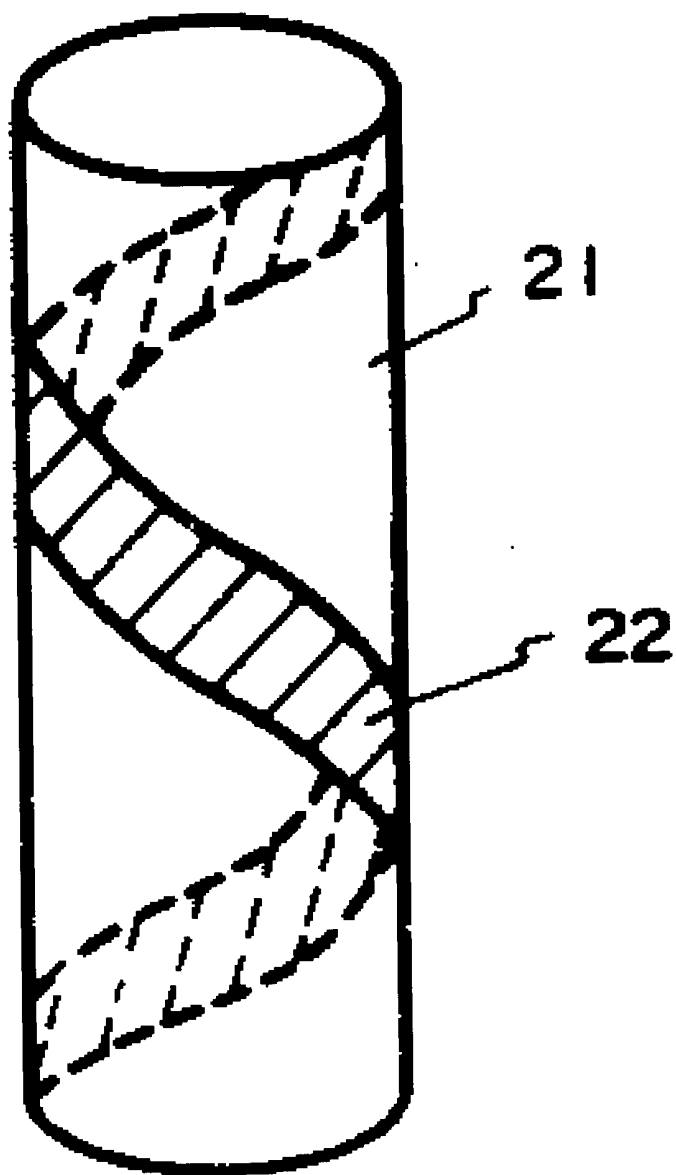
ABSTRACT:

PURPOSE: To mass-produce high-reliable oscillation transducers at low cost by forming thin piezoelectric films around the surfaces of constant-elasticity metallic round bars spirally.

CONSTITUTION: On the flank of constant-elasticity metallic round bar 21, one thin piezoelectric film 22 is formed spirally by being sputtered. After a metallic electrode film is provided on the surface of the thin film, a polarizing treatment is only done in the thickness direction, and applying an AC signal between the metallic electrode film and the metallic round bar energizes torsional oscillations. This piezoelectric torsional oscillation transducer can be constituted without using adhesives and has less difficulties

in manufacture technique, so that high-reliability
piezoelectric torsional
oscillation transducers can be mass-produced at low cost.

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